Figure 1 (prior ART)

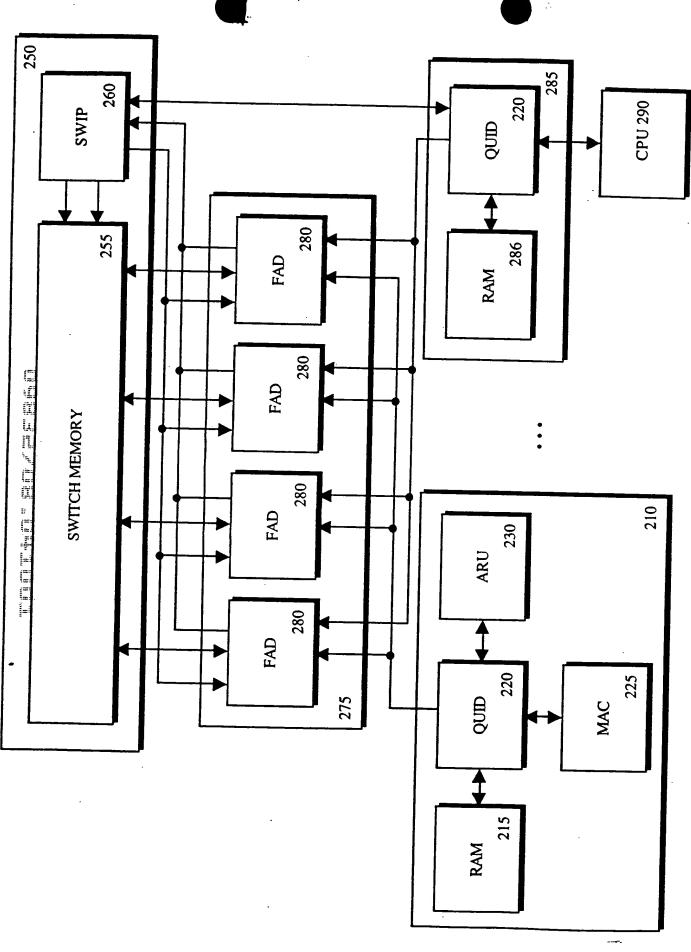


Figure 2

310	Destination Address:	11.1.2.65	= 00001011.00000001.00000010.01000001
320	Route #1	11.1.2.0/24	$= \underline{00001011.00000001.00000010.000000000}$
330	Route #2	11.1.0.0/16	= 00001011.00000001.000000000.0000000000
340	Route #3	11.0.0.0/8	= 00001011.00000000.00000000.00000000000

FIG.

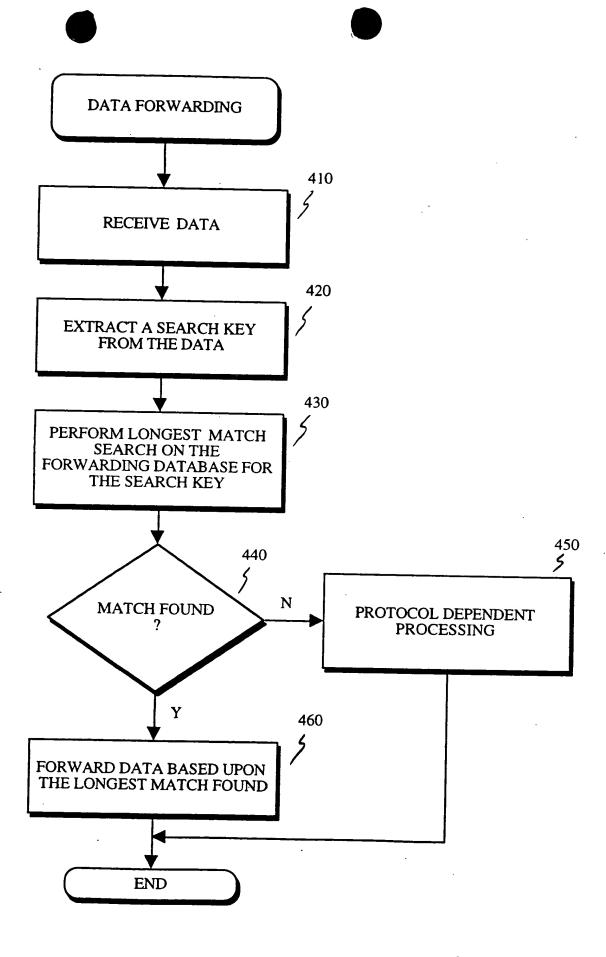


Figure 4

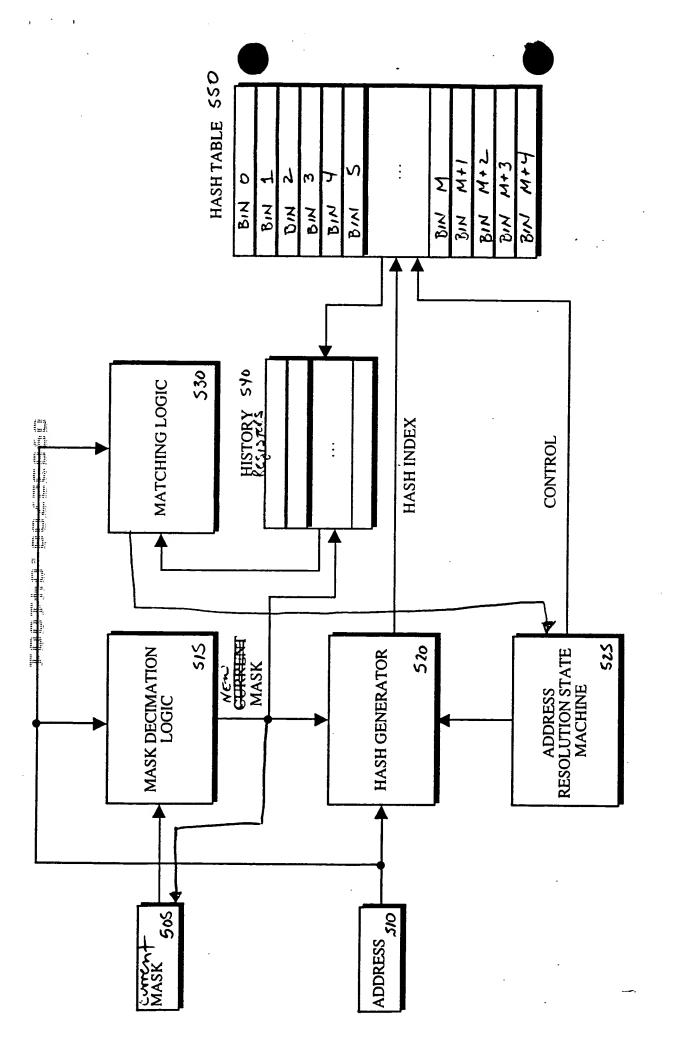


Figure 5

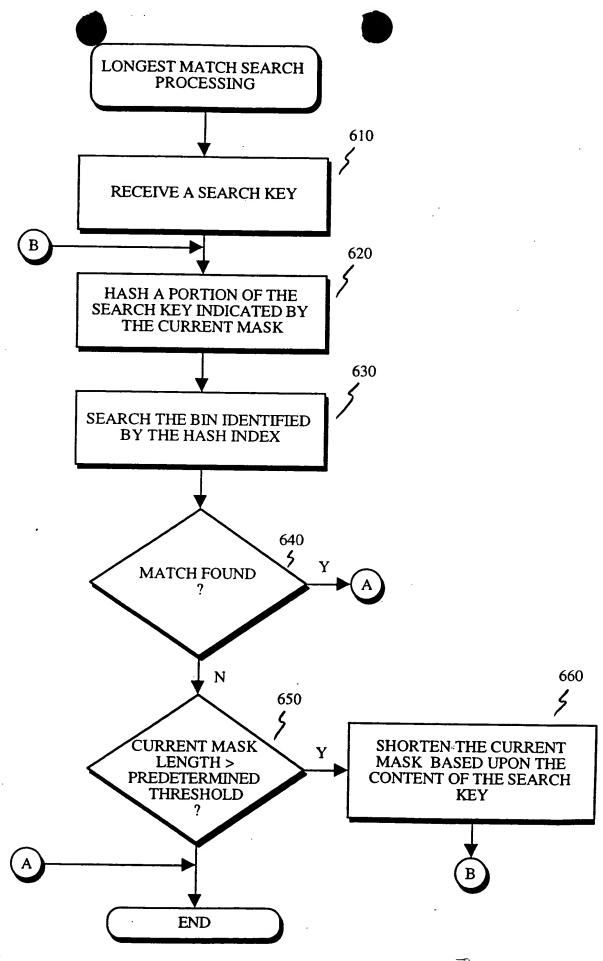
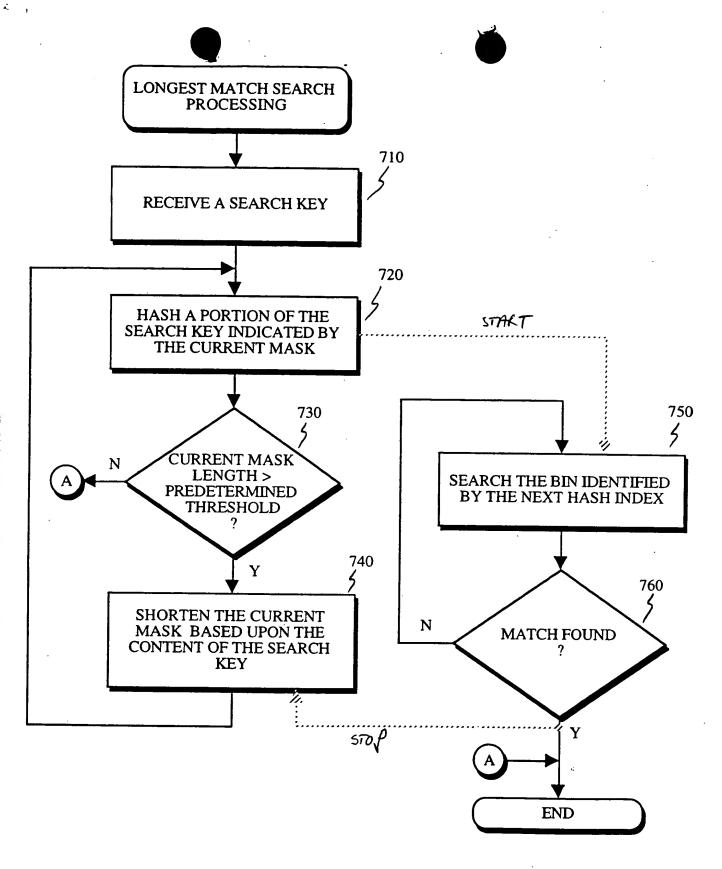


Figure 6



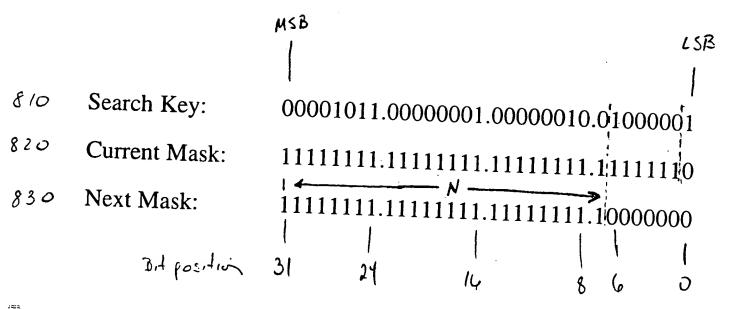


FIG. 8

Bit-wise Mask Decimation

			Masked	
Address (hex)	Iteration	Mask (hex)	Address (hex)	
OB 01 02 41	1	FF FF FF FF	0B 01 02 41	
	2	FF FF FF FE	0B 01 02 40	1
	3	FF FF FF FC	0B 01 02 40	1
	4	FF FF FF F8	0B 01 02 40	1
	5	FF FF FF F0	0B 01 02 40	
	6	FF FF FF E0	0B 01 02 40	
	7	FF FF FF C0	0B 01 02 40	1
	8	FF FF FF 80	0B 01 02 00	4-NA

FIG. 9

Address-sensitive Mask Decimation

	Address (hex)	Iteration	Mask (hex)	Masked Address (hex)	
02	OB 01 02 41	1	FF FF FF FF	0B 01 02 41	=
		2	FF FF FF FE	0B 01 02 40	
		3	FF FF FF 80	0B 01 02 00	MAtch
		4	FF FF 00 00	0B 01 00 00	
		5	FF 00 00 00	0B 00 00 00	

FIG. 10

Address	Mask		
00011000 00010000 00000010 00000000	111111111	111111111111111111111111111111111111111	2/11/0
00011000 00010000 00000000 00000000	11111111	2/1/ 5/1/ 11111111 00000000 00000000 2/1/ 5/1/ 5	7 1115
•••			
00011000 00000000 00000000 00000000	11111111	077 7 7 1111111 00000000 00000000 00000000	7 120

FIG. 11A (PRIOR ART)

	7 163	3	•	130
Mask Lenith	11000	01000		00100
:				
Address	00011000 00010000 0000010 0000000	00011000 00010000 00000000 00000000	•••	00011000 00000000 00000000 00000000

FIG. 11B (PRIOR ART)

Y	Address + Mask Infamation		
ŏ	00011000 00010000 00000010 10000000 0		130
ŏ	00011000 00010000 10000000 0000000 0	1	7 115
•			
Ö	00011000 10000000 00000000 00000000 0		1150

FIG. 11C